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#8

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/579,680

DATE: 10/29/2001

TIME: 15:31:08

Input Set : A:\BIOGEN1.APP.txt

Output Set: N:\CRF3\10292001\I579680.raw

ENTERED

p.5

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3 <110> APPLICANT: Pepinsky, et al.
5 <120> TITLE OF INVENTION: HYDROPHOBICALLY-MODIFIED PROTEIN COMPOSITIONS AND
6   METHODS
8 <130> FILE REFERENCE: BIIJ-P02-067
10 <140> CURRENT APPLICATION NUMBER: 09/579,680
11 <141> CURRENT FILING DATE: 2000-05-26
13 <150> PRIOR APPLICATION NUMBER: PCT/US98/25676
14 <151> PRIOR FILING DATE: 1998-12-13
16 <160> NUMBER OF SEQ ID NOS: 4
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 175
22 <212> TYPE: PRT
23 <213> ORGANISM: human
25 <400> SEQUENCE: 1
26 Cys Gly Pro Gly Arg Val Val Gly Ser Arg Arg Arg Pro Pro Arg Lys
27   1           5           10           15
29 Leu Val Pro Leu Ala Tyr Lys Gln Phe Ser Pro Asn Val Pro Glu Lys
30           20           25           30
32 Thr Leu Gly Ala Ser Gly Arg Tyr Glu Gly Lys Ile Ala Arg Ser Ser
33           35           40           45
35 Glu Arg Phe Lys Glu Leu Thr Pro Asn Tyr Asn Pro Asp Ile Ile Phe
36           50           55           60
38 Lys Asp Glu Glu Asn Thr Gly Ala Asp Arg Leu Met Thr Gln Arg Cys
39           65           70           75           80
41 Lys Asp Arg Leu Asn Ser Leu Ala Ile Ser Val Met Asn Gln Trp Pro
42           85           90           95
44 Gly Val Lys Leu Arg Val Thr Glu Gly Trp Asp Glu Asp Gly His His
45           100          105          110
47 Ser Glu Glu Ser Leu His Tyr Glu Gly Arg Ala Val Asp Ile Thr Thr
48           115          120          125
50 Ser Asp Arg Asp Arg Asn Lys Tyr Gly Leu Leu Ala Arg Leu Ala Val
51           130          135          140
53 Glu Ala Gly Phe Asp Trp Val Tyr Tyr Glu Ser Lys Ala His Val His
54           145          150          155          160
56 Cys Ser Val Lys Ser Glu His Ser Ala Ala Ala Lys Thr Gly Gly
57           165          170          175
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 174
62 <212> TYPE: PRT
63 <213> ORGANISM: human
65 <400> SEQUENCE: 2
66 Cys Gly Pro Gly Arg Gly Phe Gly Lys Arg Arg His Pro Lys Lys Leu
67   1           5           10           15
69 Thr Pro Leu Ala Tyr Lys Gln Phe Ile Pro Asn Val Ala Glu Lys Thr
70           20           25           30
72 Leu Gly Ala Ser Gly Arg Tyr Glu Gly Lys Ile Ser Arg Asn Ser Glu

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```

73          35          40          45
75 Arg Phe Lys Glu Leu Thr Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys
76          50          55          60
78 Asp Glu Glu Asn Thr Gly Ala Asp Arg Leu Met Thr Gln Arg Cys Lys
79 65          70          75          80
81 Asp Lys Leu Asn Ala Leu Ala Ile Ser Val Met Asn Gln Trp Pro Gly
82          85          90          95
84 Val Lys Leu Arg Val Thr Glu Gly Trp Asp Glu Asp Gly His His Ser
85          100          105          110
87 Glu Glu Ser Leu His Tyr Glu Gly Arg Ala Val Asp Ile Thr Thr Ser
88          115          120          125
90 Asp Arg Asp Arg Ser Lys Tyr Gly Met Leu Ala Arg Leu Ala Val Glu
91          130          135          140
93 Ala Gly Phe Asp Trp Val Tyr Tyr Glu Ser Lys Ala His Ile His Cys
94 145          150          155          160
96 Ser Val Lys Ala Glu Asn Ser Val Ala Ala Lys Ser Gly Gly
97          165          170
100 <210> SEQ ID NO: 3
101 <211> LENGTH: 176
102 <212> TYPE: PRT
103 <213> ORGANISM: human
105 <400> SEQUENCE: 3
106 Cys Gly Pro Gly Arg Gly Pro Val Gly Arg Arg Arg Tyr Ala Arg Lys
107 1          5          10          15
109 Gln Leu Val Pro Leu Leu Tyr Lys Gln Phe Val Pro Gly Val Pro Glu
110          20          25          30
112 Arg Thr Leu Gly Ala Ser Gly Pro Ala Glu Gly Arg Val Ala Arg Gly
113          35          40          45
115 Ser Glu Arg Phe Arg Asp Leu Val Pro Asn Tyr Asn Pro Asp Ile Ile
116          50          55          60
118 Phe Lys Asp Glu Glu Asn Ser Gly Ala Asp Arg Leu Met Thr Glu Arg
119 65          70          75          80
121 Cys Lys Glu Arg Val Asn Ala Leu Ala Ile Ala Val Met Asn Met Trp
122          85          90          95
124 Pro Gly Val Arg Leu Arg Val Thr Glu Gly Trp Asp Glu Asp Gly His
125          100          105          110
127 His Ala Gln Asp Ser Leu His Tyr Glu Gly Arg Ala Leu Asp Ile Thr
128          115          120          125
130 Thr Ser Asp Arg Asp Arg Asn Lys Tyr Gly Leu Leu Ala Arg Leu Ala
131          130          135          140
133 Val Glu Ala Gly Phe Asp Trp Val Tyr Tyr Glu Ser Arg Asn His Val
134 145          150          155          160
136 His Val Ser Val Lys Ala Asp Asn Ser Leu Ala Val Arg Ala Gly Gly
137          165          170          175
143 <210> SEQ ID NO: 4
144 <211> LENGTH: 176
145 <212> TYPE: PRT
146 <213> ORGANISM: human
148 <220> FEATURE:

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Input Set : A:\BIOGEN1.APP.txt

Output Set: N:\CRF3\10292001\I579680.raw

149 <221> NAME/KEY: SITE
150 <222> LOCATION: (6)
151 <223> OTHER INFORMATION: Xaa= Val or Gly
153 <220> FEATURE:
154 <221> NAME/KEY: SITE
155 <222> LOCATION: (7)
156 <223> OTHER INFORMATION: Xaa= Val, Phe, or Pro
158 <220> FEATURE:
159 <221> NAME/KEY: SITE
160 <222> LOCATION: (8)
161 <223> OTHER INFORMATION: Xaa= Gly or Val
163 <220> FEATURE:
164 <221> NAME/KEY: SITE
165 <222> LOCATION: (9)
166 <223> OTHER INFORMATION: Xaa= Ser or Gly
168 <220> FEATURE:
169 <221> NAME/KEY: SITE
170 <222> LOCATION: (10)
171 <223> OTHER INFORMATION: Xaa= Arg or Lys
173 <220> FEATURE:
174 <221> NAME/KEY: SITE
175 <222> LOCATION: (13)
176 <223> OTHER INFORMATION: Xaa= Pro, His, or Tyr
178 <220> FEATURE:
179 <221> NAME/KEY: SITE
180 <222> LOCATION: (14)
181 <223> OTHER INFORMATION: Xaa= Pro or Ala
183 <220> FEATURE:
184 <221> NAME/KEY: SITE
185 <222> LOCATION: (15)
186 <223> OTHER INFORMATION: Xaa= Arg or Lys
188 <220> FEATURE:
189 <221> NAME/KEY: SITE
190 <222> LOCATION: (17)
191 <223> OTHER INFORMATION: Xaa= any amino acid
193 <220> FEATURE:
194 <221> NAME/KEY: SITE
195 <222> LOCATION: (19)
196 <223> OTHER INFORMATION: Xaa= Val or Thr
198 <220> FEATURE:
199 <221> NAME/KEY: SITE
200 <222> LOCATION: (22)
201 <223> OTHER INFORMATION: Xaa= Ala or Leu
203 <220> FEATURE:
204 <221> NAME/KEY: SITE
205 <222> LOCATION: (27)
206 <223> OTHER INFORMATION: Xaa= Ser, Ile, or Val
208 <220> FEATURE:
209 <221> NAME/KEY: SITE

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Input Set : A:\BIOGEN1.APP.txt

Output Set: N:\CRF3\10292001\I579680.raw

210 <222> LOCATION: (29)
211 <223> OTHER INFORMATION: Xaa= Asn or Gly
213 <220> FEATURE:
214 <221> NAME/KEY: SITE
215 <222> LOCATION: (31)
216 <223> OTHER INFORMATION: Xaa= Pro or Ala
218 <220> FEATURE:
219 <221> NAME/KEY: SITE
220 <222> LOCATION: (41)
221 <223> OTHER INFORMATION: Xaa= Tyr or Ala
223 <220> FEATURE:
224 <221> NAME/KEY: SITE
225 <222> LOCATION: (45)
226 <223> OTHER INFORMATION: Xaa= Ile or Val
229 <220> FEATURE:
230 <221> NAME/KEY: SITE
231 <222> LOCATION: (46)
232 <223> OTHER INFORMATION: Xaa= Ala or Ser
234 <220> FEATURE:
235 <221> NAME/KEY: SITE
236 <222> LOCATION: (48)
237 <223> OTHER INFORMATION: Xaa= Ser, Asn, or Gly
239 <220> FEATURE:
240 <221> NAME/KEY: SITE
241 <222> LOCATION: (54)
242 <223> OTHER INFORMATION: Xaa= Glu or Asp
244 <220> FEATURE:
245 <221> NAME/KEY: SITE
246 <222> LOCATION: (56)
247 <223> OTHER INFORMATION: Xaa= Thr or Val
249 <220> FEATURE:
250 <221> NAME/KEY: SITE
251 <222> LOCATION: (71)
/252 <223> OTHER INFORMATION: Xaa= Thr or Ser
254 <220> FEATURE:
255 <221> NAME/KEY: SITE
256 <222> LOCATION: (79)
257 <223> OTHER INFORMATION: Xaa= Gln or Glu
259 <220> FEATURE:
260 <221> NAME/KEY: SITE
261 <222> LOCATION: (83)
262 <223> OTHER INFORMATION: Xaa= Asp or Glu
264 <220> FEATURE:
265 <221> NAME/KEY: SITE
266 <222> LOCATION: (84)
267 <223> OTHER INFORMATION: Xaa= Arg or Lys
269 <220> FEATURE:
270 <221> NAME/KEY: SITE
271 <222> LOCATION: (85)

RAW SEQUENCE LISTING

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Input Set : A:\BIOGEN1.APP.txt

Output Set: N:\CRF3\10292001\I579680.raw

272 <223> OTHER INFORMATION: Xaa= Leu or Val
274 <220> FEATURE:
275 <221> NAME/KEY: SITE
276 <222> LOCATION: (91)
277 <223> OTHER INFORMATION: Xaa= Ser or Ala
279 <220> FEATURE:
280 <221> NAME/KEY: SITE
281 <222> LOCATION: (95)
282 <223> OTHER INFORMATION: Xaa= Gln or Met
286 <220> FEATURE:
287 <221> NAME/KEY: SITE
288 <222> LOCATION: (114)
289 <223> OTHER INFORMATION: Xaa= Ser or Ala
291 <220> FEATURE:
292 <221> NAME/KEY: SITE
293 <222> LOCATION: (115)
294 <223> OTHER INFORMATION: Xaa= Glu or Gln
296 <220> FEATURE:
297 <221> NAME/KEY: SITE
298 <222> LOCATION: (116)
299 <223> OTHER INFORMATION: Xaa= Glu or Asp
301 <220> FEATURE:
302 <221> NAME/KEY: SITE
303 <222> LOCATION: (135)
304 <223> OTHER INFORMATION: Xaa= Asn or Ser
306 <220> FEATURE:
307 <221> NAME/KEY: SITE
308 <222> LOCATION: (139)
309 <223> OTHER INFORMATION: Xaa= Leu or Met
311 <220> FEATURE:
312 <221> NAME/KEY: SITE
313 <222> LOCATION: (157)
314 <223> OTHER INFORMATION: Xaa= Lys or Arg
316 <220> FEATURE:
317 <221> NAME/KEY: SITE
318 <222> LOCATION: (158)
319 <223> OTHER INFORMATION: Xaa= Ala or Asn
321 <220> FEATURE:
322 <221> NAME/KEY: SITE
323 <222> LOCATION: (160)
324 <223> OTHER INFORMATION: Xaa= Val or Ile
326 <220> FEATURE:
327 <221> NAME/KEY: SITE
328 <222> LOCATION: (162)
329 <223> OTHER INFORMATION: Xaa= Cys or Val
331 <220> FEATURE:
332 <221> NAME/KEY: SITE
333 <222> LOCATION: (166)
334 <223> OTHER INFORMATION: Xaa= Ser or Ala

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 10/29/2001

PATENT APPLICATION: US/09/579,680

TIME: 15:31:09

Input Set : A:\BIOGEN1.APP.txt

Output Set: N:\CRF3\10292001\I579680.raw

L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4